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(2790)

PUBLIC SERVICE

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January 27, 2003

Mr. Scot Cullen, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and Maintenance, PSC Rule 113.0607(6)

Dear Mr. Cullen:

Enclosed for filing are 3 copies of Juneau Utility Commission's report to the commission, submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,

Merlin A. Luedke
Electric Superintendent

Enclosures

TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN

Juneau Utility Commision

FILING DEADLINE
FEBRUARY 1, 2003

January 27, 2003

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This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission (≥69Kv)		X	X
Substations	X	X	
Distribution (OH & UG)			X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5 year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies .

0) Good condition
1) Good condition but aging
2) Non-critical maintenance required – normally repair within 12 months
3) Priority maintenance required – normally repair within 90 days
4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

IV Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
Feeder #1	**Industrial Substation**
Feed is going West out of substation	New substation built in 2002

Circuit # and description	Substation
Feeder #2	**Industrial Substation**
Feed is going North out of substation	New substation built in 2002

Circuit # and description	Substation
Feeder #3	**Industrial Substation**
Feed is going East out of substation	New substation built in 2002

Circuit # and description	Substation
Feeder #3	**Downtown Substation**
Feed is going East out of substation	Substation is being rebuilt in 2003

Circuit # and description	Substation
Feeder #1	**North side Substation**
Feed is going West out of substation	Substation is in Good condition

Circuit # and description	Substation
Feeder #2	**North side Substation**
Feed is going Southwest out of substation	Substation is in Good condition

VIII Scheduling Goals Established and Success of Meeting the Criteria:

"It was this utility's goal to complete all monthly substation inspections, annual transmission line inspections and to inspect 40% of the distribution system. In addition, we expected to complete all scheduled maintenance resulting from the inspections within the prescribed time periods specified in the rating criteria.

All of our inspection goals were meet. We have inspected our overhead lines, 7 out of 9 feeders that make up more than 40% of are distribution system. No major maintenance items were discovered. All monthly substation inspections were completed. Our downtown substation is in the process of being rebuilt, and we have a new substation that went on line in December of 2002. Our transmission lines will be handed over to the American Transmission Company (ATC) in 2003.

IX Facility condition – rating criteria:

Most of our system has been rebuilt in the past 10 years, the rest of are system is scheduled for rebuilt in 2003 & 2004. Our system is in overall good condition